



SEQUENCE LISTING

~~AP-110~~ Venta, Patrick J.
Brewer, George J.
Vilma, Yusbasiyan-Gurkan
Schall, William D.

< 120> DNA ENCODING CANINE VON WILLEBRAND FACTOR AND METHODS OF USE

<13> GMV-1226CPPC)S

<151> 09/132, 652

<151> 1998-08-11

<150> PCT/US99/13153

<151> 1999-08-10

<161> 29

<17> PatentIn Ver. 2.0

<217> 1

<211> 3802

<212> DNA

<213> Canis familiaris

401

- 3 -

<211> 23.0

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• 213 • *Canis familiaris*

400 2

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Leu Pro Gly Lys Leu Cys Thr Lys Gly Thr Val Gly Arg Ser Ser Met
 20 25 30

Ala Arg Cys Ser Leu Leu Gly Gly Asp Phe Ile Asn Thr Phe Asp Glu
 35 40 45

Ser Met Tyr Ser Phe Ala Gly Asp Cys Ser Tyr Leu Leu Ala Gly Asp
 50 55 60

Cys Gln Glu His Ser Ile Ser Leu Ile Gly Gly Phe Gln Asn Asp Lys
 65 70 75 80

Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
85 90 95

Phe Val Asn Gly Thr Met Leu Gln Gly Thr Gln Ser Ile Ser Met Pro
 100 105 110

Tyr Ala Ser Asn Gly Leu Tyr Leu Glu Ala Glu Ala Gly Tyr Tyr Tyr Lys
 115 120 125

Leu Ser Ser Glu Ala Tyr Gly Phe Val Ala Arg Ile Asp Gly Asn Gly
130 135 140

Asn-Phe-Gln-Val-Leu-Lys-Gly-Asp-Ala-Tyr-Phe-Ala-Lys-Thr-Gly-Gly-Gly

Gln Gly Thr Leu Thr Ser Asp Pro Tyr Asp Phe Ala Asn Ser Trp Ala
100 105 110

Leu-Gly-Ser-Ala-Gly-Gln-Ala-Gly-Lys-Ala-Val-Ser-Pro-Pro-Gly-Gln

	245	251	255
Cys Val Gln Gly Met Cys Pro Cys Ala Val Leu Leu Glu Tyr Ala 261	265		274
Arg Ala Cys Ala Gln Gin Gly Ile Val Leu Tyr Gly Trp Thr Asp His 275	280		285
Ser Val Cys Arg; Pro Ala Cys Pro Ala Gly Met Glu Tyr Lys Glu Cys 290	295		300
Val Ser Pro Cys Thr Arg Thr Cys Gln Ser Leu His Val Lys Glu Val 305	310		315
Cys Gln Glu Gln Cys Val Asp Gly Cys Ser Cys Pro Glu Gly Gln Leu 325		330	335
Leu Asp Glu Gly His Cys Val Gly Ser Ala Glu Cys Ser Cys Val His 340		345	350
Ala Gly Gln Arg Tyr Pro Pro Gly Ala Ser Leu Leu Gln Asp Cys His 355		360	365
Thr Cys Ile Cys Arg Asn Ser Leu Trp Ile Cys Ser Asn Glu Glu Cys 370	375		380
Pro Gly Glu Cys Leu Val Thr Gly Gln Ser His Phe Lys Ser Phe Asp 385	390		395
Asn Arg Tyr Phe Thr Phe Ser Gly Val Cys His Tyr Leu Leu Ala Gln 405		410	415
Asp Cys Gln Asp His Thr Phe Ser Val Val Ile Glu Thr Val Gln Cys 420		425	430
Ala Asp Asp Leu Asp Ala Val Cys Thr Arg Ser Val Thr Val Arg Leu 435		440	445
Pro Gly His His Asn Ser Leu Val Lys Leu Lys Asn Gly Gly Val 451	455		461
Arg Met Arg Gly Ile Asp Ile Ile Ile Ile Leu Leu Ile Gly Arg Leu 465	470		475
Arg Ile Gln His Thr Val Met Ala Ser Val Arg Leu Ser Tyr Gly Glu 485		490	495
Asp Leu Gln Met Asp Ser Asp Val Arg Gly Arg Leu Leu Val Thr Leu 500			

545 550 555 560
Asn Leu Gln Lys Gln His Arg Asp Pro Cys Ser Leu Asn Pro Arg Gln
565 570 575 580
Ala Arg Phe Ala Glu Glu Ala Cys Ala Leu Leu Thr Ser Ser Lys Phe
585 590 595 600
Glu Pro Cys His Arg Ala Val Gly Pro Gln Pro Tyr Val Gln Asn Cys
605 610 615 620
Leu Tyr Asp Val Cys Ser Cys Ser Asp Gly Arg Asp Cys Leu Cys Ser
625 630 635 640
Ala Val Ala Asn Tyr Ala Ala Ala Val Ala Arg Arg Gly Val His Ile
645 650 655 660
Ala Thr Arg Glu Pro Gly Phe Cys Ala Leu Ser Cys Pro Gln Gly Gln
665 670 675 680
Val Tyr Leu Gln Cys Gly Thr Pro Cys Asn Met Thr Cys Leu Ser Leu
685 690 695 700
Ser Tyr Pro Glu Glu Asp Cys Asn Glu Val Cys Leu Glu Ser Cys Phe
705 710 715 720
Ser Pro Pro Gly Leu Tyr Leu Asp Glu Arg Gly Asp Cys Val Pro Lys
725 730 735 740
Ala Gln Cys Pro Cys Tyr Tyr Asp Gly Glu Ile Phe Gln Pro Glu Asp
745 750 755 760
Ile Phe Ser Asp His His Thr Met Cys Tyr Cys Glu Asp Gly Phe Met
765 770 775 780
His Cys Thr Thr Ser Gly Gly Leu Gly Ser Leu Leu Pro Asn Pro Val
785 790 795 800
Leu Ser Ser Ile Arg Tyr His Arg Ser Tyr Arg Ser Ile Ser Tyr Arg
805 810 815 820
Ile Arg Met Val Asp Ile Ile Tyr Ile Ala Asp Alan Ile Arg Ala Ile
825 830 835 840
Gly Leu Glu Cys Ala Lys Thr Cys Gln Asn Tyr Asp Leu Gln Cys Met
845 850 855 860
Ser Thr Gly Tyr Val Ser Gly Cys Leu Tyr Pro Ile Ile Met Val Arg
865 870 875 880

815 820

Ala Thr Cys Ser Ala Ile Gly Met Ala His Tyr Leu Thr Phe Asp Gly
865 870 875 880

Leu Lys Tyr Leu Phe Pro Gly Glu Cys Gln Tyr Val Leu Val Gln Asp
885 890 895

Tyr Cys Gly Ser Asn Pro Gly Thr Leu Arg Ile Leu Val Gly Asn Glu
900 905 910

Gly Cys Ser Tyr Pro Ser Val Lys Cys Lys Lys Arg Val Thr Ile Leu
915 920 925

Val Glu Gly Glu Ile Glu Leu Phe Asp Gly Glu Val Asn Val Lys
930 935 940

Lys Pro Met Lys Asp Glu Thr His Phe Glu Val Val Glu Ser Gly Gln
945 950 955 960

Tyr Val Ile Leu Leu Gly Lys Ala Leu Ser Val Val Trp Asp His
965 970 975

Arg Leu Ser Ile Ser Val Thr Leu Lys Arg Thr Tyr Gln Glu Gln Val
980 985 990

Cys Gly Leu Cys Gly Asn Phe Asp Gly Ile Gln Asn Asn Asp Phe Thr
995 1000 1005

Ser Ser Ser Leu Gln Ile Glu Glu Asp Pro Val Asp Phe Gly Asn Ser
1010 1015 1020

Trp Lys Val Asn Pro Gln Cys Ala Asp Thr Lys Lys Val Pro Leu Asp
1025 1030 1035 1040

Ser Ser Pro Ala Val Cys His Asn Asn Ile Met Lys Gln Thr Met Val
1045 1050 1055

Asp Ser Ser Cys Arg Ile Leu Thr Ser Asp Ile Ile Gln Asp Cys Asn
1060 1065 1070 1075

Asp Leu Val Asp Pro Ile Ile Phe Leu Asp Ile Tyr Ile Tyr Asp Thr
1080 1085 1090 1095

Cys Ser Cys Glu Ser Ile Gly Asp Cys Thr Cys Phe Cys Asp Thr Ile
1095 1100 1105

Ala Ala Tyr Ala His Val Tyr Ala Ile His Gly Ile Val Val Ala Thr
1110 1115 1120 1125

1155 1160 1165
Cys Val Gln Gly Cys His Ala His Cys Pro Pro Gly Lys Ile Leu Asp
1155 1160 1165
Glu Leu Leu Gln Thr Cys Ile Asp Pro Glu Asp Cys Pro Val Pys Glu
1165 1190 1195 1200
Val Ala Gly Arg Arg Leu Ala Pro Gly Lys Lys Ile Ile Leu Asn Pro
1205 1210 1215
Ser Asp Pro Glu His Cys Gln Ile Cys Asn Cys Asp Gly Val Asn Phe
1220 1225 1230
Thr Cys Lys Ala Cys Arg Glu Pro Gly Ser Val Val Val Pro Pro Thr
1235 1240 1245
Asp Gly Pro Ile Gly Ser Thr Thr Ser Tyr Val Glu Asp Thr Ser Glu
1250 1255 1260
Pro Pro Leu His Asp Phe His Cys Ser Arg Leu Leu Asp Leu Val Phe
1265 1270 1275 1280
Leu Leu Asp Gly Ser Ser Lys Leu Ser Glu Asp Glu Phe Glu Val Leu
1285 1290 1295
Lys Val Phe Val Val Gly Met Met Glu His Leu His Ile Ser Gln Lys
1300 1305 1310
Arg Ile Arg Val Ala Val Val Glu Tyr His Asp Gly Ser His Ala Tyr
1315 1320 1325
Ile Glu Leu Lys Asp Arg Lys Arg Pro Ser Glu Leu Arg Arg Ile Thr
1330 1335 1340
Ser Gln Val Lys Tyr Ala Gly Ser Glu Val Ala Ser Thr Ser Glu Val
1345 1350 1355 1360
Leu Lys Tyr Thr Leu Phe Gln Ile Phe Gly Lys Ile Asp Arg Ile Gln
1365 1370 1375 1380
Ala Ser Arg Ile Ala Leu Leu Ile Met Ala Ser Gln Asp Ile Asp Arg
1385 1390 1395 1400
Leu Ala Arg Asn Leu Val Arg Tyr Val Gln Gly Leu Lys Lys Lys Lys
1395 1400 1405
Val Ile Val Ile Pro Val Gly Ile Gly Pro His Ala Ser Ile Lys Ile
1410 1415 1420

1460 1465 1470
Met Ala Gln Val Thr Val Gly Ser Glu Leu Leu Gly Val Ser Ser Pro
1475 1480 1485
Gly Pro Lys Arg Asn Ser Met Val Leu Asp Val Val Phe Val Leu Glu
1490 1495 1500
Gly Ser Asp Lys Ile Gly Glu Ala Asn Phe Asn Lys Ser Arg Glu Phe
1505 1510 1515 1520
Met Glu Glu Val Ile Gln Arg Met Asp Val Gly Gln Asp Arg Ile His
1525 1530 1535
Val Thr Val Leu Gln Tyr Ser Tyr Met Val Thr Val Glu Tyr Thr Phe
1540 1545 1550
Ser Glu Ala Gln Ser Lys Gly Glu Val Leu Gln Gln Val Arg Asp Ile
1555 1560 1565
Arg Tyr Arg Gly Gly Asn Arg Thr Asn Thr Gly Leu Ala Leu Gln Tyr
1570 1575 1580
Leu Ser Glu His Ser Phe Ser Val Ser Gln Gly Asp Arg Glu Gln Val
1585 1590 1595 1600
Pro Asn Leu Val Tyr Met Val Thr Gly Asn Pro Ala Ser Asp Glu Ile
1605 1610 1615
Lys Arg Met Pro Gly Asp Ile Gln Val Val Pro Ile Gly Val Gly Pro
1620 1625 1630
His Ala Asn Val Gln Glu Leu Glu Lys Ile Gly Trp Pro Asn Ala Pro
1635 1640 1645
Ile Leu Ile His Asp Phe Glu Met Leu Pro Arg Glu Ala Pro Asp Leu
1650 1655 1660
Val Leu Gln Arg Cys Cys Ser Gly Glu Gly Leu Gln Ile Pro Thr Ile
1665 1670 1675 1680 1685
Ser Thr Ile Ile Asp Tyr Ile Ile Asp Val Val Ile Ile Ile Ile
1690 1695 1700 1705
Asp Gly Ser Ser Ser Ile Pro Ala Ser Tyr Phe Asp Glu Met Lys Ser
1705 1710
Ile Thr Ile Ala Phe Ile Ile Asp Asn Ile Asp Phe Asn Ile Thr
1715 1720

1865

1879

1889

Ala Val Arg Tyr Val Thr Ser Glu Val His Gly Ala Arg Pro Gly Ala
1875 1885 1890

Ser Lys Ala Val Val Ile Leu Val Thr Asp Val Ser Val Asp Ser Val
1895 1900 1905

Asp Ala Ala Ala Glu Ala Ala Arg Ser Asn Arg Val Thr Val Phe Pro
1810 1815 1820

Ile Gly Ile Gly Asp Arg Tyr Ser Glu Ala Gln Leu Ser Ser Leu Ala
1825 1830 1835 1840

Gly Pro Lys Ala Gly Ser Asn Met Val Arg Leu Gln Arg Ile Glu Asp
1845 1850 1855

Leu Pro Thr Val Ala Thr Leu Gly Asn Ser Phe Phe His Lys Leu Cys
1860 1865 1870

Ser Gly Phe Asp Arg Val Cys Val Asp Glu Asp Gly Asn Glu Lys Arg
1875 1880 1885

Pro Gly Asp Val Trp Thr Leu Pro Asp Gln Cys His Thr Val Thr Cys
1890 1895 1900

Leu Pro Asp Gly Gln Thr Leu Leu Lys Ser His Arg Val Asn Cys Asp
1905 1910 1915 1920

Arg Gly Pro Arg Pro Ser Cys Pro Asn Gly Gln Pro Pro Leu Arg Val
1925 1930 1935

Glu Glu Thr Cys Gly Cys Arg Trp Thr Cys Pro Cys Val Cys Met Gly
1940 1945 1950

Ser Ser Thr Arg His Ile Val Thr Phe Asp Gly Gln Asn Phe Lys Leu
1955 1960 1965

Thr Gly Ser Cys Ser Tyr Val Leu Ile Gln Asn Lys Glu Gln Asp Ile
1970 1975 1980

Val Val Ile Ile Ile Asn Gly Ala Tyr Ser Ile Gly Ala Lys Glu Thr
1985 1990 1995 2000

Cys Met Lys Ser Ile Glu Val Lys His Asp Gly Ile Ser Val Glu Ile
2005 2010 2015

His Ser Asp Met Gln Met Thr Val Asn Gly Arg Ile Val Ser Ile Pro
2020 2025 2030

1065

2070

2075

1080

Thr Tyr Gly Leu Cys Gly Ile Cys Asp Glu Asn Gly Ala Asn Asp Phe
 2123 2124 2125

Ile Leu Arg Asp Gly Thr Val Thr Thr Asp Trp Lys Ala Leu Ile Gln
 2100 2105 2110

Glu Trp Thr Val Gin Gln Leu Gly Lys Thr Ser Gln Pro Val His Glu
 2115 2120 2125

Glu Gln Cys Pro Val Ser Glu Phe Phe His Cys Gln Val Leu Leu Ser
 2130 2135 2140

Glu Leu Phe Ala Glu Cys His Lys Val Leu Ala Pro Ala Thr Phe Tyr
 2145 2150 2155 2160

Ala Met Cys Gln Pro Asp Ser Cys His Pro Lys Lys Val Cys Glu Ala
 2165 2170 2175

Ile Ala Leu Tyr Ala His Leu Cys Arg Thr Lys Gly Val Cys Val Asp
 2180 2185 2190

Trp Arg Arg Ala Asn Phe Cys Ala Met Ser Cys Pro Pro Ser Leu Val
 2195 2200 2205

Tyr Asn His Cys Glu His Gly Cys Pro Arg Leu Cys Glu Gly Asn Thr
 2210 2215 2220

Ser Ser Cys Gly Asp Gln Pro Ser Glu Gly Cys Pro Pro Asn
 2225 2230 2235 2240

Gln Val Met Leu Glu Gly Ser Cys Val Pro Glu Glu Ala Cys Thr Gln
 2245 2250 2255

Cys Ile Ser Gln Asp Gly Val Arg His Gln Phe Leu Glu Thr Trp Val
 2260 2265 2270

Pro Ala His Gln Pro Cys Gln Ile Cys Thr Cys Leu Ser Gly Arg Ile
 2275 2280 2285

Ile Asn Tyr Thr Leu Gln Ile Cys Ile Thr Ala Cys Ala Ile Thr Tyr
 2290 2295 2300

Gly Pro Cys Glu Val Ala Arg Leu Arg Gln Asn Ala Val Gln Cys Cys
 2305 2310 2315 2320

Pro Gln Tyr Ile Cys Val Cys Asp Leu Val Ile Cys Asp Leu Pro Phe
 2325 2330 2335 2340

Arg Pro Ile Cys Val Cys Asp Leu Val Ile Cys Asp Leu Pro Phe

Arg Lys Thr Gln Lys Cys Asp Glu Tyr Ile Lys Ala Cys Asn Cys Val Asn
2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445

Ser Thr Val Ser Cys Pro Leu Ily Tyr Leu Ala Ser Ala Val Thr Asn
2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456

Asp Cys Gly Cys Thr Thr Thr Thr Cys Phe Pro Asp Lys Val Cys Val
2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467

His Arg Gly Thr Ile Tyr Pro Val Gly Gln Phe Trp Glu Ala Cys
2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478

Asp Val Cys Thr Cys Thr Asp Leu Glu Asp Ser Val Met Gly Leu Arg
2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489

Val Ala Gln Cys Ser Gln Lys Pro Cys Glu Asp Asn Cys Leu Ser Gly
2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500

Phe Thr Tyr Val Leu His Glu Gly Glu Cys Cys Gly Arg Cys Leu Pro
2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511

Ser Ala Cys Glu Val Val Thr Gly Ser Pro Arg Gly Asp Ala Gln Ser
2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522

His Trp Lys Asn Val Gly Ser His Trp Ala Ser Pro Asp Asn Pro Cys
2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533

Leu Ile Asn Glu Cys Val Arg Val Lys Glu Glu Val Phe Val Gln Gln
2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544

Arg Asn Val Ser Cys Pro Gln Leu Asn Val Pro Thr Cys Pro Thr Gly
2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555

Phe Gln Leu Ser Cys Lys Thr Ser Glu Cys Cys Pro Thr Cys His Cys
2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566

Glu Ile Leu Gln Ala Cys Leu Leu Asn Gly Thr Ile Ile Ily Phe Ily
2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577

Ile Asp Leu Met Ile Asp Val Cys Thr Ile Ily Asn Ile Ily Val Ile
2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588

Val Ily Val Ile Ser Ser Ily Ile Ile Ily Ile Ile Ily Arg Ilys Thr Thr Cys
2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599

Gln Ala Phe Ile Ile Ily Ily Ile Ile Ile Ile Ile Ile Ile Ile Ily Ile Ily
2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610

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— 18 —

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Arg: Val Thr Gly Cys Pro Pro Ile Asp Glu His Lys Cys Ileu Ala Glu
Dipeptide 2695

Gly Gly Lys Ile Met Lys Ile Pro Gly Thr Cys Cys Asp Thr Cys Glu
 2735 2736 2737 2738

Glu Pro Glu Cys Lys Asp Ile Ile Ala Lys Leu Gln Arg Val Lys Val
2725 2730 2735

Gly Asp Cys Lys Ser Glu Glu Glu Val Asp Ile His Tyr Cys Glu Gly
 2740 2745 2750

Lys Cys Ala Ser Lys Ala Val Tyr Ser Ile His Met Glu Asp Val Gln
 2755 2760 2765

Asp Gln Cys Ser Cys Cys Ser Pro Thr Gln Thr Gln Pro Met Gln Val
2776 2775 2780

Ala Leu Arg Cys Thr Asn Gly Ser Leu Ile Tyr His Glu Ile Ieu Asn
2785 2790 2795 2800

Ala Ile Glu Cys Arg Cys Ser Pro Arg Lys Cys Ser Lys
2805 2810

22103-3

$\langle 211 \rangle \cdot \{0\}$

22122- DNA

<213> Canis familiaris

400

gggggttccaaaaatgaca aaagagttagatcttcggtg tatctcgagg aatttttoga 60

210. 4

211 <0

<212> DNA

All 3: Canis familiaris

• 10 •

¹ See, e.g., *United States v. Ladd*, 10 F.3d 1250, 1254 (11th Cir. 1993) (“[A]nyone who has ever been to a bar or restaurant knows that it is common for people to leave a tip.”).

- 10 -

4/11/2020

• 212 • DNA

3.1.2. Çanakkale İmamılar İmamı

¹ See, e.g., the discussion of the relationship between the right to privacy and the right to autonomy in *Reiter et al.*, *above* note 1, at 11–12.

460 13
Ile Ser Met Pro Tyr Ala Ser Asn Gly

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- 211: 31
- 212: RNA
- <213> *Canis familiaris*

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31

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• 400x 16
aggregat

25

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1970-1971

1970-1971
1971-1972
1972-1973
1973-1974
1974-1975
1975-1976
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2098-2099
2099-20100

1993-1994 学年第一学期

2010 RELEASE UNDER E.O. 14176

- 5 -

210 - 20
211 - 16
212 - DNA
213 - *Canis familiaris*

6400 + 40

10

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Arg Cys His Pro Leu Val Asp Pro Glu Pro Phe Val Ala Leu Cys Glu
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Arg Thr Leu Cys Thr Cys Val Gln Gly Met Glu Cys Pro Cys Ala Val
35 40 45

Leu Leu Glu Tyr Ala Arg Ala Cys Ala Gln Gln Gly Ile Val Leu Tyr
50 55 60

My love for you will last till the end of time.

• 211. 21
• 212. 20
• 213. DNA
• 214. Canis familiaris

1997-1998 学年

221 - May 1941
222 - 5-4
223 - 5-1

400 24

- 4. 10 - 25
- 4. 11 - 18
- 4. 12 - DNA
- 4. 13 - *Canis familiaris*

<400 - 25

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 < 11> 20
 < 12> DNA
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tttacctgt gggccagtc

<10> 27
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<13> Canis familiaris

<100> 27
jaccacccca caggcagt

< 10> 28
< 11> 21
< 12> DNA
< 13> Canis familiaris

<400> 28
ctgtggaggac aactgcgtgc c

19. *Urtica dioica* L. (Urticaceae) - Common Nettle
Common Name: Nettle
Habitat: Roadsides, fields, pastures, thickets, woodlands, stream banks, disturbed areas.
Flowers: Small, two-lipped flowers, yellowish-green, arranged in whorls along the upper part of the stem.
Leaves: Opposite, deeply lobed, serrated leaves with prominent stinging hairs (trichomes).
Stem: Hairy, upright stem with distinct nodes.
Roots: Fibrous root system.
Bark: Not applicable as it is a herbaceous plant.

431-23
tag mātua ē tūatahi atua i